

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2005/050711

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 A61M5/20 A61M5/24

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 A61M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 03/077968 A (PERCY SCOTT FORSTER ; LILLY CO ELI (US)) 25 September 2003 (2003-09-25) page 5, columns 13-18 page 8, lines 11-22; figures 1-5	1
X	US 5 354 287 A (WACKS JONATHAN L) 11 October 1994 (1994-10-11)	1, 15
A	column 5, line 64 - column 10, line 16; figures 1-3	2-14
X	US 5 360 410 A (WACKS ET AL) 1 November 1994 (1994-11-01) column 7, lines 14-20 column 19, line 34 - column 21, line 28; figures 8a-9d	1, 15
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

G document member of the same patent family

Date of the actual completion of the international search

26 September 2005

Date of mailing of the international search report

11. 10. 2005

Name and mailing address of the ISA

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INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2005/050711

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 6 406 460 B1 (HOGAN THOMAS) 18 June 2002 (2002-06-18) column 2, lines 43-67; figure 11 column 7, lines 21-43	1, 16-21, 31
P, X	EP 1 462 134 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD) 29 September 2004 (2004-09-29) paragraphs '0065! - '0067!, '0085!, '0121!; figure 11	1, 16-31
X	WO 03/057286 A (MATSUSHITA ELECTRIC INDUSTRIAL CO., LTD; BABA, TOKUMI; ISHIKAWA, TOKUM) 17 July 2003 (2003-07-17) abstract	1, 16-31
X	DE 29 50 140 A1 (SCHWARZ, LOTHAR; SCHWARZ, LOTHAR, 7500 KARLSRUHE, DE) 19 June 1981 (1981-06-19) the whole document	1, 22-30, 32
A	US 6 171 276 B1 (ADAM MARKUS ET AL) 9 January 2001 (2001-01-09) column 9, line 26 - column 11, line 58	1-14
A	GB 809 773 A (S. & R. J. EVERETT & COMPANY LIMITED) 4 March 1959 (1959-03-04) page 1, lines 19-36	1, 22-30, 32
A	US 6 599 272 B1 (HJERTMAN BIRGER ET AL) 29 July 2003 (2003-07-29) column 7, lines 39-57	1, 22-30, 32

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2005/050711

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 03077968	A	25-09-2003	AU 2003208948 A1	29-09-2003
US 5354287	A	11-10-1994	NONE	
US 5360410	A	01-11-1994	NONE	
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EP 1462134	A	29-09-2004	CN 1602212 A WO 03057286 A1 US 2005090781 A1	30-03-2005 17-07-2003 28-04-2005
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DE 2950140	A1	19-06-1981	NONE	
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US 6599272	B1	29-07-2003	NONE	

INTERNATIONAL SEARCH REPORT

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☒ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1+2 and 3-14

Claims 1+2 and 3-14 essentially define a hand-held electronically controlled injection device comprising

- 1) a housing adapted for receiving a medication container,
- 2) the device having a contact surface for contacting a patient's skin,
- 3) first actuator means for moving said medication container within the housing to and from said contact surface, and
- 4) the contact surface having a through opening for receiving a needle assembly comprising a needle and a needle housing, the device comprising releasable retaining means for locking the needle housing during displacement of the medication container (cf. claim 2).

2. claim: 1+15

Claims 1+15 essentially define a hand-held electronically controlled injection device comprising the features 1)-3) of the above first group, and

- 4) a medication container unit and a needle assembly comprising a needle support, wherein at least one of said needle support and an end of said medication container is provided with an elastic flange (cf. claim 15).

3. claims: 1+16, 17-21 and independent claim 31

Claims 1+16, 17-21 and independent claim 31 essentially define an injection device comprising the features 1)-3) of the above first group, and

- 4) first sensor means for detecting proper connection of the needle to the medication container (cf. claim 16 and claim 31).

4. claims: 1+22+23, 24-30 and independent claim 32

Claims 1+22+23, 24-30 and independent claim 32 essentially define an electronically controlled injection device comprising the features 1)-3) of group I), and

- 4) door, a door opening mechanism for opening/closing said door, and a lock mechanism (cf. claim 23 and claim 32).
